



Water-Data Report UT-2005

10156000 SNAKE CREEK NEAR CHARLESTON, UT

Jordan River Basin

LOCATION.--Lat 40°29'07", long 111°27'59" referenced to North American Datum of 1927, in NE ¼ NW ¼ SW ¼ sec.11, T.4 S., R.4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 700 ft upstream from mouth and 1.5 mi northeast of Charleston.

DRAINAGE AREA.--31.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1938 to October 1950, May 1993 to current year. Monthly discharge only, September 1938 to September 1945, published in WSP 1413.

GAGE.--Water-stage recorder. Elevation of gage is 5,435 ft above NGVD of 1929, from topographic map. Prior to 1993 at different datum.

REMARKS.--Records fair. Some diversions above station for irrigation. Gage is affected by backwater.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146 ft³/s, Jun 14, 1995, gage height, 2.46 ft, maximum gage height, 3.63 ft, Mar 23, 1996; minimum, 16 ft³/s, Aug 25, 28, 29, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 132 ft³/s, Jan 10, gage height, 3.64 ft; minimum daily discharge, 33 ft³/s, Oct 2.

10156000 SNAKE CREEK NEAR CHARLESTON, UT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	35	54	37	42	45	38	42	36	67	62	48	44
2	33	52	37	40	43	38	42	35	65	66	47	44
3	36	51	38	39	43	38	41	36	61	71	49	47
4	36	54	40	40	48	38	41	36	57	63	51	47
5	37	63	39	39	44	38	41	38	56	70	50	44
6	37	64	38	39	42	38	40	48	69	67	53	46
7	36	66	38	38	43	39	41	45	95	63	51	49
8	35	68	38	38	43	40	43	45	93	68	55	51
9	35	74	43	50	40	40	47	59	94	64	52	54
10	35	72	43	79	39	40	47	49	90	64	48	56
11	35	59	40	63	40	41	47	53	78	64	53	51
12	39	59	40	54	41	40	48	48	94	59	52	53
13	41	54	40	46	40	40	49	45	97	58	46	50
14	40	53	38	45	42	40	46	45	93	58	44	50
15	36	52	37	49	45	40	35	46	90	52	43	48
16	39	50	37	48	42	39	37	48	91	47	42	42
17	41	48	37	48	41	39	44	47	88	45	44	40
18	49	43	36	47	40	40	43	47	92	43	42	40
19	53	42	36	48	42	40	42	54	96	42	42	38
20	66	41	36	48	47	42	44	69	98	46	40	39
21	78	41	37	49	45	40	41	60	99	46	40	41
22	60	44	37	47	43	41	37	61	e101	47	45	42
23	57	44	39	46	e42	45	36	59	e100	53	47	46
24	60	43	38	46	e41	42	35	57	e100	50	41	44
25	61	41	38	46	e40	41	37	79	e98	60	42	45
26	58	39	39	45	e40	40	37	55	e94	63	46	50
27	58	37	39	46	e39	40	39	49	e92	62	42	50
28	60	36	38	46	e38	42	44	52	e87	58	40	49
29	63	35	42	46	---	44	47	66	e82	54	38	44
30	59	35	42	44	---	44	38	67	68	47	39	45
31	57	---	41	42	---	44	---	59	---	47	40	---
Total	1,465	1,514	1,198	1,443	1,178	1,251	1,251	1,593	2,585	1,759	1,412	1,389
Mean	47.3	50.5	38.6	46.5	42.1	40.4	41.7	51.4	86.2	56.7	45.5	46.3
Max	78	74	43	79	48	45	49	79	101	71	55	56
Min	33	35	36	38	38	38	35	35	56	42	38	38
Ac-ft	2,910	3,000	2,380	2,860	2,340	2,480	2,480	3,160	5,130	3,490	2,800	2,760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	46.4	47.6	43.4	42.2	41.5	44.4	44.2	51.3	56.5	43.4	39.3	40.7
Max	65.0	62.9	55.7	51.7	55.0	52.1	57.8	87.5	86.8	59.4	57.5	62.3
(WY)	(1999)	(1946)	(1999)	(1999)	(1945)	(1945)	(1945)	(1943)	(1995)	(1995)	(1998)	(1998)
Min	32.4	33.8	35.5	33.3	31.0	36.2	32.7	31.4	30.0	26.3	20.5	25.8
(WY)	(2004)	(1940)	(2003)	(2004)	(2004)	(1940)	(2002)	(2002)	(2003)	(1994)	(2002)	(2003)

10156000 SNAKE CREEK NEAR CHARLESTON, UT—Continued

SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1939 - 2005	
Annual total	13,529		18,038			
Annual mean	37.0		49.4		45.0	
Highest annual mean					55.2	1999
Lowest annual mean					34.6	2004
Highest daily mean	78	Oct 21	101	Jun 22	113	Jun 30, 1995
Lowest daily mean	26	May 6	33	Oct 2	17	Aug 25, 2002
Annual seven-day minimum	27	Aug 15	36	Oct 1	19	Aug 19, 2002
Annual runoff (ac-ft)	26,830		35,780		32,600	
10 percent exceeds	45		67		58	
50 percent exceeds	35		45		44	
90 percent exceeds	29		37		33	

